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DAFTAR PUSTAKA

Abdilah, M., R., W., Zaki, M., K., Mawandha, H., G. 2025. Evaluasi Historis dan Proyeksi Masa Depan Variabilitas Curah Hujan dan Kekeringan Pertanian Terhadap Produktivitas Padi di Asia Tenggara. Tesis. Yogyakarta: Fakultas Mekanisasi/Teknik Pertanian, Universitas Gadjah Mada.

Adiyanti, Lira. 2019. Nilai Faktor Pertumbuhan Untuk Estimasi Hujan Rencana Di Pulau Jawa. *Jurnal Sumber Daya Air, 15(1).*

Akhadi, Mukhlis. 2023. *Isu Lingkungan Hidup: Mewaspadai Dampak Kemajuan Teknologi dan Polusi Lingkungan Global yang Mengancam Kehidupan*. Yogyakarta: Graha Ilmu.

Aldiansyah, S., dan Risna, R. 2023. Mapping of Oldeman Agro–Climatic Zone Based on Climate Hazards Group Infrared Precipitation with Station Database in Southeast Sulawesi. *Ecotrophic: Journal of Environmental Science, 17(2).*

Allani, M.; Mezzi, R.; Zouabi, A.; Beji, R.; Joumade–Mansouri, F.; Hamza, M. E., dan Sahli, A. 2020. Impact of Future Climate Change on Water Supply and Irrigation Demand in A Small Mediterranean Catchment. Case Study: Nebhana Dam System, Tunisisa. *Journal Water and Climate Change, 11(4).*

Anggraeni, R., P., Susanto, A., Jasrudin, J. 2024. Analysis Of Climate Variability On Drought Index In Sleman District. *Journal of Social Research, 3(7).*

Anggraheni, E.; Sutjiningsih, D.; Mulyono, B. H.; Guswanto, Ningrum, I. A., dan Yahya, D. M. 2022. Pengaruh Sebaran Spasial Hujan terhadap Pemilihan Metode Hujan Wilayah Berbasis Analisis Geospasial. *Jurnal Teknik Sumber Daya Air, 81–92.*

Annisa, H. N., dan Nugroho, B. D. A. 2021. Analysis and Projections of Rainfall Using Representative Concentration Pathways (RCPs) Scenarios in Sleman Yogyakarta. *IOP Conference Series: Earth and Environmental Science, 653.*

Ariyanti, V., Edelenbos, J., Scholten, P. 2020. Implementing the Integrated Water Resources Management Approach in a Volcanic River Basin: a Case Study of Opak Sub–Basin, Indonesia. *Area Development and Policy, 5(4), 412–427.*

UNIVERSITAS
GADJAH MADA
Proyeksi Curah Hujan DAS Opak Berdasarkan Skenario Shared Socioeconomic Pathways (SSP)
TISTANTI ATINTA SAKTI, Utia Suarma, S.Si.,M. Sc.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Auffhammer, M.; Solomon, M. H.; Wolfram, S., dan Adam, S. 2011. *Global Climate Models and Climate Data: A user guide for economists*. Working Paper.

Bappenas. 2010. *ICCSR*. Jakarta: Bappenas.

Barkey, R. A.; Soma, A. S.; Nursaputra, M., dan Mappeasse, M. F. 2019. Modeling of Climate Change Impact on Water Availability in Metropolitan Mamminasata, Indonesia. *In IOP Conference Series: Earth and Environmental Science, 280*.

Bewick, V.; Cheek, L., dan Ball, J. 2003. Statictic Review 7: Correlation and Regression. *Critical Care (7) 451–459.*

Bhanage, V.; Lee, H. S.; Kubota, T.; Pradana, R. P.; Fajary, F. R.; Arya Putra, I. D. G., dan Nimiya, H. 2023. City–Wise Assessment of Suitable CMIP6 GCM in Simulating Different Urban Meteorological Variables over Major Cities in Indonesia. *Climate, 11(5), 100.*

BMKG Stasiun Klimatologi DI Yogyakarta. 2023. *Buletin Informasi Iklim*: *Analisis Hujan Desember 2022, Prakiraan Hujan Februari, Maret, dan April 2023.* Yogyakarta: BMKG Stasiun Klimatologi DI Yogyakarta.

BMKG Stasiun Klimatologi DI Yogyakarta. 2026. Kaleidoskop Iklim dan Kualitas Udara D.I Yogyakarta. https://staklim–yogya.bmkg.go.id/2026/01/09/kaleidoskop–iklim–2023–2–2/. Diakses oleh Tistanti Atinta Sakti pada 10 April 2026.

Bulti, A., T. dan Yutura, G., A. 2025. Statistical Downscaling of Climate Variables for Local Forecasts and Applications to Improve Climate Change Prediction in Upper Blue Nile Basin. *Physics and Chemistry of The Earth, 135.*

Caraka, R., E., Tahmid, M., Putra, R., M., Iskandar, A., Mauludin, M., A., Hermansah, Goldameir, N., E., Rohayani, H., dan Pardamean, B. 2018. Analysis of Plant Pattern Using Water Balance and Cimogram Based on Oldeman Climate Type. *IOP Conference Series: Earth and Environmental Science, 195.*

Cavalcante, R. B. L., Ferreira, D. B. da S., Pontes, P. R. M., Tedeschi, R. G., da Costa, C. P. W., dan de Souza, E. B. 2020. Evaluation of extreme rainfall indices from CHIRPS precipitation estimates over the Brazilian Amazonia. *Atmospheric Research, 238 (104879).*

UNIVERSITAS
GADJAH MADA
Proyeksi Curah Hujan DAS Opak Berdasarkan Skenario Shared Socioeconomic Pathways (SSP)
TISTANTI ATINTA SAKTI, Utia Suarma, S.Si.,M. Sc.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Cubero, J., Llasat, M. dan Matamoros, R. 2025. Benchmarking Uninitialized CMIP6 Simulations for Inter–Annual Surface Wind Predictions. *Atmosphere, 16 (254).*

Environment and Climate Change Canada (ECCC). 2023. *CMIP6 and Shared Socio–economic Pathways overview, update 3 Oktober 2023.* Diakses dari https://climate–scenarios.canada.ca/?page=cmip6–overview–notes#coupled–model–intercomparison–project–phase–6–(cmip6) oleh Tistanti Atinta Sakti pada Tanggal 11 November 2023 pukul 11.26 WIB.

Eslamian, Saeid. 2014. *Handbook of Engineering Hydrology: Modelling, Climate Change, and Variability*. London: CRC Press.

Eyring, V.; Bony, S.; Meehl, G. A.; Senior, C. A.; Stevens, B.; Stouffer, R. J., dan Taylor, K. E. 2016. Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organization. *Geoscientific Model Development, 9(5), 193–1958.*

Firdauzi, L., B. dan Suarma, U. 2023. Analysis of Rainfall Variability and Shift in Season in Relation to the Rice Cultivation Period in Sleman Regency. *IOP Conference Series: Earth and Environmental Science, 1233.*

Fleming, J., R. 2014. Climate, Change, History. *Environment and History, 20(4), 577–586.*

Girma, Dawit. 2021. Evaluation and Bias Correction of Tropical Applications of Meteorology Using Satellite (TAMSAT) Daily Rainfall Estimates Over The Data–Scarce Region of Southern Ethiopia. *Journal of Civil Engineering Research and Technology, 3(4), 1–7.*

Guo, H. D.; Zhang, L., dan Zhu, L. W. 2015. Earth observation big data for climate change research. *Advances in Climate Change Research, 6(2), 108–117.*

Harini, R.; Ariani, R. D.; Yulianda, Y., dan Widyantari, R. 2022. Strategi Adaptasi Ketahanan Pangan Terhadap Perubahan Iklim di Pinggiran Kota Yogyakarta. *Majalah Geografi Indonesia, 35(1), 1–9.*

Hartawan, I. P.; Malik, M. Z. I.; Qhairaan, L. S.; Wiralino, K.; Rustiawan, I. Z., dan Wisanggeni, D. H. 2025. Koreksi Bias Data Hujan Proyeksi Coupled Model Intercomparison Project Phase 6 (CMIP6) di Kota Bima. *Jurnal Ilmiah Indonesia, 5(1), 57–66.*

Hegerl, G., C., Brönnimann, S., Cowan, T., Friedman, A., R., Hawkins, E., Iles, C., Müller, W., Schurer, A. dan Undorf, S. 2019. Causes of Climate

UNIVERSITAS
GADJAH MADA
Proyeksi Curah Hujan DAS Opak Berdasarkan Skenario Shared Socioeconomic Pathways (SSP)
TISTANTI ATINTA SAKTI, Utia Suarma, S.Si.,M. Sc.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Change Over the Historical Record. *Environmental Research Letter, 14(123006).*

IPCC .2023. *Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Core Writing Team, H. Lee and J. Romero (eds.).* Geneva: IPCC.

IPCC .2021. *Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson–Delmotte, V., P. Zhai, A. Pirani, S.L.Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M.I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J.B.R. Matthews, T.K.Maycock, T. Waterfield, O. Yelekçi, R. Yu, and B. Zhou (eds.)].* United Kingdom and NewYork: Cambridge University Press.

Irhami, D.E. 2009. Evaluasi ketersediaan air secara meteorologis di daerah aliran sungai (DAS) Opak. Skripsi. Yogyakarta: Fakultas Geografi, Universitas Gadjah Mada.

Jones, N. L., Davis, R. J., dan Sabbah, W. 2003. A Comparison of Three–Dimensional Interpolation Techniques for Plume Characterization. Ground Water, 41(4), 411–419.

Kementerian Lingkungan Hidup dan Kehutanan. 2021. *Indonesia's Long–Term Strategy for Low Carbon and Climate Resilience 2050*. Jakarta: KLHK. Disampaikan kepada UNFCCC.

Korkmaz, M. 2024. Impacts of Climate Change: Examining Precipitation, Temperature Anomalies, and Effects on Water Resources in Turkey. *Journal of Anatolian Environmental and Animal Sciences*, *9*(4), 558–569.

Kurnia, W. G.; Muharsyah, R., dan Widiyanto, S. 2020. Performa Koreksi Bias Prakiraan Curah Hujan Model European Centre Medium Weather Forecast (ECMWF) di Sulawesi. *Buletin GAW Bariri, 1(2), 77–86.*

Kurniadi, H., Aprilia, E., & Utomo, J., Kurniawan, A., dan Safril, A. 2020. Perbandingan Metode IDW dan Spline Dalam Interpolasi Data Curah Hujan (Studi Kasus Curah Hujan Bulanan Di Jawa Timur Periode 2012–2016). Prosiding Seminar Nasional Geotik 2018. ISSN:2580–8796P. 213–220.

UNIVERSITAS
GADJAH MADA
Proyeksi Curah Hujan DAS Opak Berdasarkan Skenario Shared Socioeconomic Pathways (SSP)
TISTANTI ATINTA SAKTI, Utia Suarma, S.Si.,M. Sc.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Le, T., Ha, K., J., Bae, D., H. dan Kim, S., H. 2020. Causal Effects of Indian Ocean Dipole on El Niño–Southern Oscillation During 1950–2014 Based on High–Resolution Models and Reanalysis Data. *Environment Research Letter, 15(10).*

Lee, W. L.; Wang, Y. C.; Shiu, C. J.; Tsai, I. C.; Tu, C.Y.; Lan, Y. Y; Chen, J. P.; Pan, H. L., dan Hsu, H. H. 2020. Taiwan Earth System Model Version 1: description and evaluation of mean state. *Geoscientific Model Development, 13, 3887–3904.*

Li, X., dan Gao, S. 2012. *Precipitation Modeling and Quantitative Analysis*. New York: Springer.

Mahmood, R.; Jia, S.; Tripathi, N. K., dan Shrestha, S. 2018. Precipitation Extended Linear Scaling Method for Correcting GCM Precipitation and Its Evaluation and Implication in The Transboundary Jhelum River Basin. *Atmosphere, 9(5).*

Mamenun, M.; Pawitan, H., dan Sopaheluwakan, A. 2014. Validasi dan Koreksi Data Satelit TRMM Pada Tiga Pola Hujan Di Indonesia. *Jurnal Meteorologi Dan Geofisika, 15(1).*

Mashuri; Karlina, dan Sujono, J. 2025. Assessment of Satellite–Based Rainfall Products for Drought Monitoring in The Siak Watershed, Indonesia. *Environmental Challenges, 19(1), 101134.*

Mauritsen, T.; Bader, J.; Becker, T.; Behrens, J.; Bittner, M.; Brokopf, R.; dkk. 2019. Developments in The MPI–M Earth System Model version1.2 (MPI–ESM1.2) and Its Response to Increasing CO2. *Journal of Advancesin Modeling Earth Systems, 11, 998–1038.*

Napoli, A., Crespi, A., Ragone, F., Maugeri, M., dan Pasquero, C. 2019. Variability of Orographic Enhancement of Precipitation in the Alpine Region. *Sci Rep, 9 (13352).*

Ng, C., Soo, E., Jaafar, W., Othman, F., Khor, J. dan Bolong, N. 2025. Evaluation of Bias Correction Methods for Coupled Model Intercomparison Project Phase 6 Model and Future Rainfall Projections over Muda River Basin. *E3S Web of Conferences*, 659.

Nurfaida, W., Ramdhani, H., Shimozono, T., Triawati, I., dan Sulaiman, M. 2020. Rainfall trend and variability over Opak River basin, Yogyakarta, Indonesia. *Journal of the Civil Engineering Forum, 7, 109–120.*

UNIVERSITAS
GADJAH MADA
Proyeksi Curah Hujan DAS Opak Berdasarkan Skenario Shared Socioeconomic Pathways (SSP)
TISTANTI ATINTA SAKTI, Utia Suarma, S.Si.,M. Sc.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Nurhamidah, N.; Muthmainnah, T. A.; Aljauhari, A.; Junaidi, A.; Adnan, N., dan Andari, R. 2025. Evaluation of Chirps Tropical Rainfall Estimates Using Automatic Weather Stations for Validation in West Sumatra, Indonesia. *Civil and Environmental Engineering. 0(0).*

Oldeman, L. R.; Las, I., dan Muladi. 1980. *The Agroclimatic Maps of Kalimantan, Maluku, Irian Jaya and Bali, West and East Nusa Tenggara*. Bogor: Central Research Institute for Agriculture.

Oo, H. T.; Zin, W. W., dan Kyi, C. C. T. 2019. Assessment of Future Climate Change Projections Using Multiple Global Climate Models. *Civil Engineering Journal (Iran), 5(10), 2152–2166.*

Pawitan, H. 2002. Hidrologi DAS Ciliwung dan Andilnya Terhadap Banjir Jakarta. *Lembaga Penelitian IPB, (5), 1–11.*

Permatasari, R.; Arwin, dan Natakusumah, D. K. 2017. Pengaruh Perubahan Penggunaan Lahan terhadap Rezim Hidrologi DAS (Studi Kasus : DAS Komering). *Jurnal Teknik Sipil Jurnal Teoretis Dan Terapan Bidang Rekayasa Sipil, 24(1), 91–98.*

Pujiati, P., Adhi, M., A., Wati, T. 2025. Perubahan Iklim Terhadap Kesesuaian Lahan Agroklimat Tanaman Padi dengan Skenario SSP245, SSP370, dan SSP585 Studi Kasus Jawa Tengah. *Jurnal Pendidikan Biologi dan Sains, 8 (6), 1336-1357.*

Putra, B. R.; Taqyuddin, T., dan Kuswantoro, K. 2019. Pola Spasial Ketersediaan dan Kebutuhan Air Di Kabupaten Sleman dan Kota Yogyakarta Dalam Rangka Kesiapan Memasuki Era Habitat 3. *Seminar Nasional Geomatika.*

Putra, G. M. D.; Setiawati, D. A., dan Sumarjan. 2018. Water Balance Analysis in Pijenan Bantul Irrigation Area. *Jurnal Agrotek Ummat, 5(1).*

Rahayu, H. P. 2020. A Micro Scale Study of Climate Change Adaptation and Disaster Risk Reduction in Coastal Urban Strategic Planning for The Jakarta. *Coastal Urban Strategic Planning, 11(1), 119–133.*

Raju, K. S., dan Kumar, D. N. 2020. Review of Approaches for Selection and Ensembling of GCMS. *Journal of Water and Climate Change, 11(3), 577–599.*

Rejekiningrum, P. 2014. Dampak Perubahan Iklim Terhadap sumber daya Air: Identifikasi, Simulasi, dan Rencana Aksi. *Jurnal sumber daya Lahan, 8(1), 1–15.*

UNIVERSITAS
GADJAH MADA
Proyeksi Curah Hujan DAS Opak Berdasarkan Skenario Shared Socioeconomic Pathways (SSP)
TISTANTI ATINTA SAKTI, Utia Suarma, S.Si.,M. Sc.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Rini, D. (2026, Maret 16). Kilas Balik Kejadian Cuaca, Iklim, dan Gempabumi 2016 'Indonesia Rentan Bencana'. Website BMKG. Diakses dari https://www.bmkg.go.id.

Rohmana, S. F.; Rusgiyono, A., dan Sugito, S. 2019. Penentuan Faktor–Faktor yang Memengaruhi Intensitas Curah Hujan Dengan Analisis Diskriminan Ganda dan Regresi Logistik Multinomial (Studi Kasus: Data Curah Hujan Kota Semarang dari Stasiun Meteorologi Maritim Tanjung Emas Periode Oktober 2018 – Maret 2019). *Jurnal Gaussian, 8(3), 398–406.*

Saputra, A. J.; Jayadi, R., dan Sujono, J. 2019. *Kajian Hidrologi dan Hidraulika Banjr Akibat Siklon Tropis Badai Cempaka 2017 di DAS Opak*. Yogyakarta: Seminar Nasional Teknik Sumber Daya Air.

Sekaranom, A. B. 2011. Pendugaan Dampak Perubahan Iklim Terhadap Curah Hujan dan Debit Puncak Banjir Di Das Opak Hulu Berdasar *Downscaling* Skenario Hadcm3 A2 Dan B2 Menggunakan *Statistical Downscaling Model* (SDSM). Skripsi. Yogyakarta: Fakultas Geografi, Universitas Gadjah Mada.

Seland, Ø.; Bentsen, M.; Olivié, D.; Toniazzo, T.; Gjermundsen, A.; Graff, A. L, dkk. 2020. Overview of the Norwegian Earth System Model (NorESM2) and Key Climate Response of CMIP6 DECK, Historical, and Scenario Simulations. *Geoscientific Model Development, 13, 6165–6200.*

Seneviratne, S., I. dan Hause, M. 2020. Regional Climate Sensitivity of Climate Extremes in CMIP6 Versus CMIP5 Multimodel Ensembles. *Earth's Future, 8(9).*

Setianto, A., dan Triandini, T. 2015. Comparison of Kriging and Inverse Distance Weighted (IDW) Interpolation Methods in Lineament Extraction and Analysis. *Journal of Applied Geology, 5(1).*

Shiru, M. S.; Kim, J. H., dan Chung, E. S. 2022. Variations in Projections of Precipitations of CMIP6 Global Climate Models under SSP 2–45 and SSP 5–85. *KSCE Journal of Civil Engineering, 26(12), 5404–5416.*

Shrestha, S., dan Lohpaisankrit, W., 2017. Flood Hazard Assesment Under Climate Change Scenarios in The Yang River Basin, Thailand. *International Journal of Sustuinable Built Environment, 6, 285–298.*

Sipayung, S. B.; Nurlatifah, A.; Maryadi, E.; Susanti, I.; Siswanto, B.; Latifah, H.; Nafayest, M.; Martono, dan Sudono, I. 2019. Proyeksi Neraca Air di Wilayah Nusa Tenggara Barat (NTB) Berdasarkan Luaran Model

UNIVERSITAS
GADJAH MADA
Proyeksi Curah Hujan DAS Opak Berdasarkan Skenario Shared Socioeconomic Pathways (SSP)
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Conformal Cubic Atmospheric Model (CCAM). *Jurnal Sains Dirgantara, 16(2), 79–90.*

Suhardono, S., Septiariva, I., Y., Wijayanti, S., Ibriza, N., M., dan Suryawan, I., W., K. 2024. Spatial and Temporal Monitoring of Drought Hazard in Opak Watershed. *In E3S Web Conference: ICENIS 2024, 605 (03041).*

Susanti, I., Sipayung, S., B., Siswanto, B., Maryadi, E., Latifah, H., Nurlatifah, A., Supriatin, L., S., Witono, A., Suhermat, M. 2021. Implications of Extreme Events on the Water Balance in Java. *AIP Conference Proceedings, 2331 (030008).*

Suwarman, R.; Riawan, E.; Simanjuntak, Y. S. M., dan Irawan, D. E. 2022. Kajian Perubahan Iklim di Pesisir Jakarta Berdasarkan Data Curah Hujan dan Temperatur. *Buletin Oseanografi Marina Februari 2022, 11(1), 99–110.*

Swart, N. C.; Cole, J. N. S.; Kharin, V. V.; Lazare, M.; Scinocca, J. F.; Gillett, N. P.; Anstey, J.; Arora, V., dkk. 2019. The Canadian Earth System Model Version 5 (CanESM5.0.3). *Geoscientific Model Development, 12, 4823–4873.*

Tampubolon, S. B., dan Suprayogi, S. 2017. Analisis Kebutuhan Air untuk Pertanian di Daerah Irigasi Karangploso Kabupaten Bantul. *Jurnal Bumi Indonesia, 6(4).*

Tangang, F. T.; Juneng, L.; Salimun, E.; Sei, K. M.; Le, M. S., dan Muhamad, H. 2012. Climate Change and Variability Over Malaysia: Gaps in Science and Research Information. *Sains Malaysiana, 41(11), 1355–1366.*

van Vuuren, D. P.; Edmonds, J.; Kainuma, M.; Riahi, K.; Thomson, A.; Hibbard, K.; Hurtt, G. C.; Kram, T.; Krey, V.; Lamarque, J. F.; Masui, T.; Meinshausen, M.; Nakicenovic, M.; Smith, S. J., dan Rose, S., K. 2011. The Shared Socioeconomic Pathways: an Overview. *Climatic Change, 109, 5–31.*

Vernimmen, R. R.; Hooijer, A.; Mamenun, Aldrian, E., dan van Dijk, A. I. J. M. 2011. Evaluation and Bias Correction of Satellite Rainfall Data For Drought Monitoring in Indonesia. *Hydrology and Earth System Sciences Discussions, 8, 5969–5997.*

Wibowo, N. B.; Fathani, T. K.; Pramumijoyo, S., dan Marliyani, G. I. 2025. The Topographic-Based vs30 Model of The Opak River Basin Yogyakarta. *Geoenvironmental Disasters, 12(27), 1—15.*

UNIVERSITAS
GADJAH MADA
Proyeksi Curah Hujan DAS Opak Berdasarkan Skenario Shared Socioeconomic Pathways (SSP)
TISTANTI ATINTA SAKTI, Utia Suarma, S.Si.,M. Sc.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Widaryanto, L. H.; Bardan, D. M., dan Mashadi, A. 2022. Analisis Curah Hujan Efektif Di Daerah Aliran Sungai Opak. *Renovasi, 7(2), 32–37.*

Widiatmoko, N.; Tarigan, S. D., dan Wahjunie, E. D. 2020. Analisis Respons Hidrologi untuk Mendukung Perencanaan Pengelolaan DAS Opak Hulu, Daerah Istimewa Yogyakarta. *Jurnal Ilmu Pertanian Indonesia, 25(4), 503–514.*

Wirjohamidjojo, S., dan Swarinoto, Y. 2010. *Iklim Kawasan Indonesia: Dari Aspek Dinamik–Sinoptik*. Jakarta: BMKG.

Wiwoho, B. S.; Astuti, I. S.; Alfarizi, I. A. G., dan Sucahyo, H. R. 2021. Validation of Three Daily Satellite Rainfall Products in a Humid Tropic Watershed, Brantas, Indonesia: Implications to Land Characteristics and Hydrological Modelling. *Hydrology, 8(4).*

Yasa, I., Sulistiyono, H., Saadi, Y., dan Hartana, H. 2022. Spatial Climate Forecasting for Climatology Disaster Mitigation. *Environment and Ecology Research, 10(6), 786–796.*